

Exploring Systems Biology

A comprehensive understanding of cellular processes in a realistic context

Genomes to Life Scientific Goals

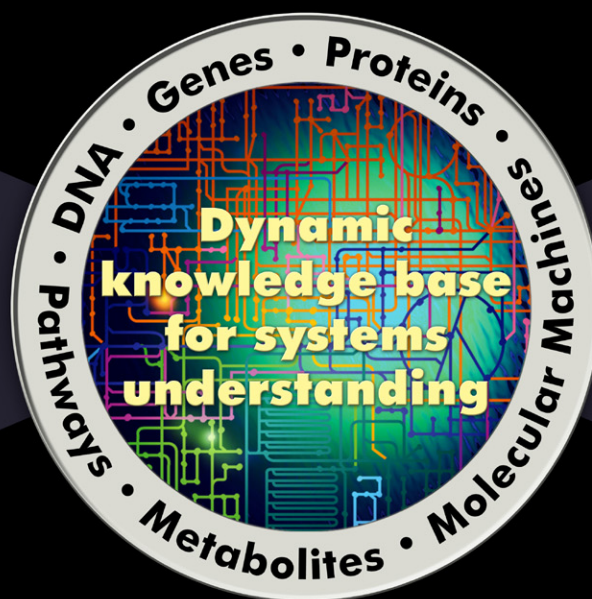
- Identify and characterize multimolecular machines performing life functions
- Characterize gene regulatory networks and pathways controlling cellular processes
- Characterize diverse functional abilities in natural microbial communities
- Develop new computational capabilities for modeling complex living systems

Accelerating the Pace of Discovery

A plan by BER and OASCR to develop complementary, large-scale user facilities accessible to the life sciences community

User Facilities for Systems Biology

- Facility I for Production and Characterization of Proteins
- Facility II for Whole Proteome Analysis
- Facility III for Characterization and Imaging of Molecular Machines
- Facility IV for Analysis and Modeling of Cellular Systems



Facilities Hallmarks

- Microbial genomes
- Advanced technologies
- High-throughput analysis and production
- Informatics and databases
- Computing and simulation
- Biosystems training